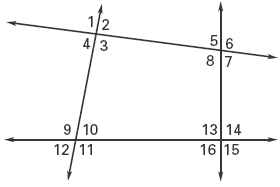
HW 16: Transversals

Due Date: Tuesday October, 1st

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

State the relationship between the two angles.

1. ∠3 and ∠9 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. ∠5 and ∠13 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. ∠4 and ∠10 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. ∠5 and ∠15 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. ∠7 and ∠14 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. ∠1 and ∠11 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- |
| 7. Find m∠1 and m∠2. | 8. Find x and y. | 9. Find m∠1 and m∠2. |
| 10. What is the value of x?   * 1. 40   2. 50   3. 60   4. 70 | 11. Find the value of x. | 12. Find the value of x. |
| 11. If lines *a* and *b* in the figure below are parallel, and intersected by the transversal, c, which of the following  statements must be true?     1. *m*1 = *m*7 Justify your response. 2. *m*2 = *m*8 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. *m*4 + *m*5 = 180 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. I only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. III only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. I and II only 4. I, II, and III 5. None of the above | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| The angle to the left says (4x +8) degrees. The angle to the left says (x+2) degrees. | | | | |
| **G** | **R** | **A** | **S** | **P** |
|  |  |  |  |  |

Two angles form a linear pair. The measure of one angle is six more than twice the measure of the other angle. Find the measure of each angle.

**G R A S P**